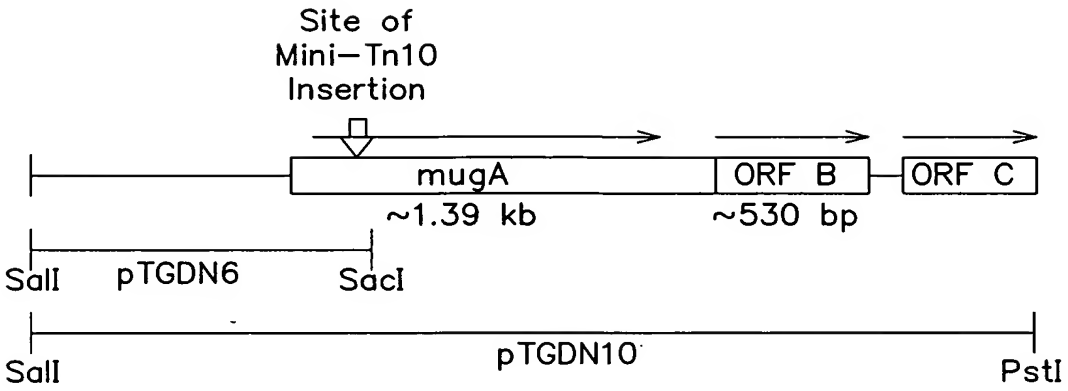

FIG. 1

1 GTCGACTTAT TGCATTGATG GCGTACATGG TAGTGCCATC CTTCGTTTGC TAACAAGCGT TGTATAAAAG

71 CTTGGTCGGT TTCATCAAGT TGAACACAAT ACTCATGATT TTTCCCACTT CCGGAAAGGG AAAAGTGAAA

141 ATAGCTTTTG AGATCAGCCT GTTCTAGCAG CTTTTCAATG ATCTTTTTCG TCGTTACGTT TTGAAAAATC

211 TGACGACTGC GTTTGTATTG CAACAAGCTA AGTGGATCCA ATATCTCTAT TTGATAATAA AACTGCTGCT

281 TGTCTTTGCT ATATCCTGTG AATTGCAGAG TGCTACATAT ACCTGAAAAA AAACGCTTTC CAGAATCTAA

351 TTCGTAAGAC ACACAAACAG CTTTACCTAG GTTTTTGGTA TCGATCTCCA TGTTTGCCGC GATGGAAACG

421 GAAAACTGAC ACCCGCCGGA TACGCTTTCC TCTCCGATTA ATTGCGTGAC AATATAACTT TTGCTATCTG

491 AAAGCTTAAT GGTGAGGGAG CGGGTTTGGT GCTTTAATTC GTTACTGCTC ATATTCAATT AATTCACTAT

561 TAAATAAACA GTTCTAAAAG GCTGTTTATT GGATGAATAT TCGAAATTAT CACATAATAA TTGATGCTAT

631 TATTACTTGC TGTATTGGTA TCAACTTTCA TGCTCTATAC ATGTAATATA TTTCGAGTTA GACCTTAATT

701 CAAGGTAATT TGTCTATTTA ATTATTATCT GAATAATATG TAATCGATTG CTTTGTGGTT ATTTTTATGT

771 TTGTTTCATT TTTAATGACG GTGAGCTTGT GCATTCATAT TTTTTATGAT GACAACATCT TTGATGAAGT

841 ATTTAAGATA TTGTTAATGC ATGAGGGGTT TGCGTGTATT TTTTATATTA AATCATAATA AAATCAACAA

911 TATATGTTAT TTTGTGTCTT TTTATAGTGT TCTTTTAAAG AGGTAGGATG ACCTAAAGGT CGCCTAAATA

981 TGGCGTAAAT TGCCATTGCT ATAATTCACC TCAAAGATAC ACTATTGGCA AATTGACAAA TATGTCACTT

1051 CGTATGAAAC AATATTAGTA GATGTTGTTT TTGCTGCAAA AATAAAAATT TTTCTGGTTG AAATAACTCA

1121 AGGCCTCTAG CGTTTTCCTT TATCTTAAAA TACAGGAAAT AGCGATTGAA GTTAATTGAC ACTTAAGCAA

S-D → ORF *Almug4*

1191 ATAGTCAACC TAACAGAGCA GGAACCTATG CCTTTGTCAA AGCATCAAAT TGAGCAACTT TCTAAACCTC

1261 TGAGTGATGA TTCGATCTGT GGCGTTTATC TTAAACTGGA AAAAAGTGCT TTTCGCCCAT TACGTAATGA

1331 ATTTAATGTC GCGCAAACTG CGCTGCGTAA GCTAAGTCAA AACCCTAGTG CTGACGAGAG AGATGCGTTA

1401 CAAGAGGCA TGTCTAAATA AGTGGAAGAT TCTCTCTGAC AGTTTGTACG AACAGTTTTC AAAAACAACC

1471 AGAGATATCG AGCTCATCTC ATGGTTTGTT GCTGCTCAAT TCCTTCTCGA TACCACATTA GAAAGTGCTG

1541 CGAATAGCCT TGAGTGGTTA GCGGATTTAA GTGAGAAGCA CTGGGATCAC CTCAACCCTG TACTACCAGT

1611 TGAAACGCTC AAATCTGATG ATGATAAGGG CAAAGAAAGA GAGCAAGCAG ATGCGAAAGT TAAAGCATTT

1681 TTCCAACTAG TCGGCGATAG CGAGGAAAGC TCGATTCTCT ATGCGCCGGT GCTGCAACTG CCCTTAGTCG

1751 GGGAAGTGAC GTTTTTTGAC TTTCAAAGTG CAGAGAGAAA AGGCGAAATC AGCCAACTGA AATCTATGCT

1821 TACGACCACG GTGGCGCAAG AGCGTTTCGC AATTCAATTC AAGATGGAAA ACGCCAAACG TTGTGTCACC

1891 CAATTAGATC GTTTGTCAGC GTTGGTGAGC ACTAAGTGTC ATTCTCTAGG CAGTCAAAGT ACCAACTTCG

1961 GATTTGCGAA GTCACTGCTT ACCCGTGTTG AAAACGCTTT GGTTCATCTA AGTGGAATTA AGTTAGCACC

2031 GAAAGCGGAG GCCAAGACAG TAGAGCAAGA GGTTGCCGAA AGTTCAGTTT CTGAAGGGGA
GCTGCCAAGC

2101 CATATGGATA CAAAACATAT AGAGCGAATA CCGATGGCAT CAGAGCAGGC TCAGACCGTA AGCCAACACT

2171 TACACGCAGG AAACCTCTCT GAACTGGGTA ATTTAAACAA TATGAACCGA GACTTAGCTT TCCATTTGTT

2241 GAGAGAAGTC TCTGATTATT TTCGCCAGAG CGAACCGCAT AGCCCAATTT CATTTTTGTT AGAAAAAGCG

2311 ATTCGATGGG GATATTTATC CTTACCTGAG TTGCTGCGAG AAATGATGTC GGAACAAAAC GGTGACGCTC

2381 TTAGTACGAT TTTTAATGCC GCCGGATTGA ATCATCTCGA TCAGGTTTTG CTGCCGGAGG TGAGTACTCC

2451 AACGGTGGGC ATTGAAAGCC CCCAAACACC TCAAGCGAAG CCTTCCGTTT CGGATCCGCG AAGTGTTGAA

2521 GAGCATGTAT CTCAGACTTC CCCTGTAGAT ACCCAATCTA AGCAAGATCA AAAACCACAA TCATCCGCTA

S-D → ORF B

2591 CGTCGGCTCT GAGTTGGTAA TTGTGTTTAA AAAATAAGGA AAAATCATGG CAAGTATTTA CATGCGTGTA

2661 AGCGGTCTTC AAGTTGAGGG CGCAGCGACT ATCGGTCAGC TAGAAACGGC TGAAGGTAAA AATGACGGTT

2731 GGTTTGCAAT CAACTCTTAC TCTTGGGGTG GCGCTCGTAA CGTTGCTATG GACATCGGTA ACGGCACCAA

2801 TGCGGATTCA GGCATGGTTG GCGTAAGCGA AGTTAGCGTA ACTAAAGAAG TCGATGGTGC TTCTGAAGAC

2871 CTACTGTCTT ATTTATTCAA CCCAGGTAAA GACGGTAAAA CTGTTGAGGT TGCATTTACT AAGCCTTCTA

2941 ACGATGGTCA AGGTGCAGAC GTTTACTTCC AAGTTAAGCT AGAAAAAGCA CGTTTAGTTT CTTACAACGT

3011 GAGCGGGACT GACGGATCTC AACCGTACGA GAGCCTATCT CTTTCTTACA CTTCTATTTC TCAGAAGCAT

3081 CACTATGAGA AAGAAGGTGG TGAACTACAA AGCGGTGGTG TTGTGACTTA CGACCTACCG ACCGGGAAAA

3151 TGACTTCTGG TAAGTAATTC TTTCATTAGA CATGCCACGT TAATTGGCAT GTCTATTTCA TGAATATCTC

S-D → ORF C

3221 ATTTTAGGAC ACCGTTATGG CATTGAACTC ACAACATAAG CGCGTTAGTA AGAACCGTGT CAGCATCAC

3291 CTATGACGTT GAAACGAATG GCGCCGTAAA GACGAAAGAG CTGCCGTTTG TTGTTGGCGT CATTGGCGAC

3361 TTTTCAGGAC ACAAACCAGA ATCAGAAAAA GTTGATTTAG AAGAGCGAGA GTTCACGGGT ATCGATAAAG

3431 ACAACTTCGA TACAGTGATG GGGCAAATTC ACCCGCGTCT TTCGTACAAG GTTGATAACA AGCTTGCTAA

3501 TGATGATAGC CAGTTTGAAG TGAACTTGAG CCTCCGTTCG ATGAAAGATT TCCACCCAGA GAACTTAGTT

3571 GATNAAATTG AGCCGCTTAA

FIG. 2

```
1   MPLSKHQIEQLSKPLSDDSICGVYLKLEKSAFRPLRNEFNVAQTALRKLSQNPSADERDALQEACLNKWK
71  ILSDSLYEQFSKTTRDIELISWFVAAQFLLDTTLESAANSLEWLADLSEKHWDHLNPVLPVETLKSDDDK
141 GKEREQADAKVKAFFQLVGDSEESSILYAPVLQLPLVGEVTFFDFQSAERKGEISQLKSMLTTTVAQER
211 FAIQFKMENAKRCVTQLDRLSALVSTKCHSLGSQSTNFGFAKSLLTRVENALVHLSGIKLAPKAEAKTVE
281 QEVAESSVSEGELPSHMDTKHIERIPMASEQAQTVSQHLHAGNLSELGNLNNMNRDLAFHLLREVSDYFR
351 QSEPHSPISFLLEKAIRWGYLSLPELLREMMSEQNGDALSTIFNAAGLNHLDQVLLPEVSTPTVGIESPQ
421 TPQAKPSVSDPRSVEEHVSQTSPVDTQSKQDQKPQSSATSALSW*
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FIG. 3a

```
1   MASIYMRVSGLQVEGAATIGQLETAEGKNDGWFAINSYSWGGARNVAMDIGNGTNADSGMVGVSEVSVTK
71  EVDGASEDLLSYLFNPGKDGKTVEVAFTKPSNDGQGADVYFQVKLEKARLVSYNVSGTDGSQPYESLSLS
141 YTSISQKHHY EKEGGELQSGGVVTYDLPTGKMTSGK*
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FIG. 3b

```
1   MALNSQHKRVSKNRVSITYDVETNGAVKTKELPFVVGVIGDFSGHKPESEKVDLEEREFTGIDKDNFDTV
71  MGQIHPRLSYKVDNKLANDDSQFEVNLSLRSMKDFHPENLVDXIEPL
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FIG. 3c